Journal of Imaging

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Biomechanical Techniques for Biomedical Imaging

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Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editors

Biomechanical imaging (BMI) has spread during the last decade as a promisng and powerful tool in biomedicine with increasing fields of application. Knowledge of mechanical properties of biological tissues such as elastic modulus, stiffness, viscosity, or viscoelasticity are crucial to understanding the structural integrity and organization that allow mechanobiology to function as a biomarker for distinguishing between health and diseased tissues. Current methods to measure biomechanical properties, such as tridimensional elasticity imaging, ultrasound elastography, and acoustic model-based imaging technologies have demonstrated in vivo biomechanical tridimensional resolution in biomedical imaging. Those imaging techniques have been expanded in parallel with computational and predictive methods in biomechanics for resolving inverse problems of viscoelastic nonlinearity of biological tissues.

We request contributions presenting imaging techniques that will contribute to highlighting the current state of the art in biomechanical imaging as well as computational models contributing to the study of mechanobiology.

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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Journal Rank: CiteScore - Q2 (*Computer Graphics and Computer-Aided Design*)

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